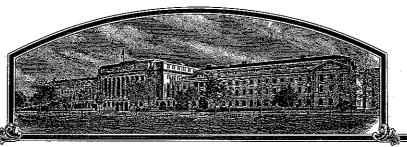
No.



THE UNITED STRATES OF AMERICA

TO AULTO WHOM THESE PRESENTS SHAVE COME:

Pioneer Hi-Bred International, Inc.

There has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT. THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANE(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW. THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY LARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC LARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC LARS FROM THE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE LOWEST FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR STOCKING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'93Y50'

In Testimony Microst, I have hereunto set my hand and caused the seal of the Mant Anxiety Frotestion Office to be affixed at the City of Washington, D.C. this thirtieth day of July, in the year two thousand and eight.

Attest:

Berz-

Commissionor Plant Variety Protection Office Agricultural Marketing Service Commond 1: grande

Agriculture

REPRODUCE LOCALLY. Include form number and	date on all reprodu	uctions	Form Approved - OMB No. 0581-0055						
U.S. DEPARTME AGRICULTURAL SCIENCE AND TECHNOLOGY - I	ENT OF AGRICULT MARKETING SER PLANT VARIETY P	VICE	The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Peperwork Reduction Act (PRA) of 1995.						
APPLICATION FOR PLANT VI (Instructions and information of	ARIETY PROTECT	ION CERTIFICATE	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).						
1. NAME OF OWNER			TEMPORARY DESIGNATION OR EXPERIMENTAL NAME						
Pioneer Hi-Bred Internation	nal, Inc.		XB35F07	XB35F07 93Y50					
4. ADDRESS (Street and No., or R.F.D. No., City,	, State, and ZIP Co	de, and Country)	5. TELEPHONE (include area code)) FOR OFFICIAL USE ONLY					
7300 N.W. 62nd Avenue			(515) 253-2197		NUMBER				
P.O. Box 1004			6. FAX (include area code)	∦ #	200800096				
Johnston, IA 50131-1004	ļ	•	(515) 253-2288	FILING	G DATE				
 IF THE OWNER NAMED IS NOT A "PERSON", ORGANIZATION (corporation, partnership, asset 	GIVE FORM OF ociation, etc.)	8. IF INCORPORATED, GIVE STATE OF INCORPORATION	9. DATE OF INCORPORATION		1/29/2008				
Corporate		Iowa	May 6, 1926		11011000				
10. NAME AND ADDRESS OF OWNER REPRES	ENTATIVE(S) TO S	SERVE IN THIS APPLICATION. (Fire	st person listed will receive all papers)	F E E	FILING AND EXAMINATION FEES:				
Paul D. Koelling		Cassie J. Prochas	ka	11	\$ 4,382.00				
7300 N.W. 62nd Avenue	,	7250 N.W. 62nd	Avenue	R E C	DATE 1/29/2008 CERTIFICATION FEE:				
P.O. Box 1004		P.O. Box 552		Į Ę	: 768.00				
Johnston, IA 50131-1004		Johnston, IA 50	131-1000	E D	DATE 6/25/2008				
11. TELEPHONE (Include area code)	12. FAX (Includ		13. E-MAIL						
(515) 253-2197 14. CROP KND (Common Name)		253-2288 ME (Botenical)	paul.koelling@pic	paul.koelling@pioneer.com 18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL)					
			VYES NO						
Soybean 15. GENUS AND SPECIES NAME OF CROP	Fabace 17. IS THE VAR	3 36 RIETY A FIRST GENERATION HYB	IF SO, PLEASE GIVE THE A	IS ON THE SAME THE ADDRESS HODE ADDRESS HOLD DESCRIPTION OF THE					
Glycine max	YES	XNO	COMMERICALIZATION.						
19. CHECK APPROPRIATE BOX FOR EACH ATTA (Follow instructions on reverse)	ACHMENT SUBMI	ITED	20. DOES THE OWNER SPECIF	Y THAT S	EED OF THIS VARIETY BE SOLD AS A CLASS 93(a) of the Plant Variety Protection Act)				
a. X Exhibit A. Origin and Breeding History	of the Variety			YES (If "yes", answer items 21 and 22 below) X NO (if "no", go to item 23)					
b. X Exhibit B. Statement of Distinctness			21. DOES THE OWNER SPECIF	21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES?					
c. X Exhibit C. Objective Description of Vari	iety		YES NO	YES NO					
d. X Exhibit D. Additional Description of the	Variety (Optional)		IF YES, WHICH CLASSES? FOUNDATION REGISTERED CERTIFIED						
e. X Exhibit E. Statement of the Basis of the		nip	22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?						
f. X Exhibit F. Declaration Regarding Depo		•	YES NO	□ YES □ NO					
g. X Voucher Sample (3,000 vieble untreets that tissue culture will be deposited and	ad seeds or, for tub I maintained in an a	er propagated varieties, verification approved public repository)	IF YES, SPECIFY THE NUME	IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.					
g. X Filing and Examination Fee (\$4,382), m States" (Mail to the Plant Variety Protect	tion Office)		(If additional explanation is ne	(If additional explanation is necessary, please use the space indicated on the reverse.)					
23. HAS THE VARIETY (INCLUDING ANY HARVES FROM THIS VARIETY BEEN SOLD, DISPOSED OTHER COUNTRIES?	OF, TRANSFERE	OK A HYBRID PRODUCED RED, OR USED IN THE U.S. OR	24. IS THE VARIETY OR ANY CO INTELLECTUAL PROPERTY	24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)?					
YES V NO			YES NO	YES NO					
IF YES, YOU MUST PROVIDE THE DATE OF F FOR EACH COUNTRY AND THE CIRCUMSTAI	FIRST SALE, DISP NCES. (Please us	OSITION, TRANSFER, OR USE e space indicated on reverse.)	IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)						
25. The owners declare that a viable sample of basis	seed of the variet	y has been furnished with applicatio	n and will be replenished upon request in ac	cordance	with such regulations as may be applicable, or				
for a tuber propagated variety a tissue culture with the undersigned owner(s) is (are) the owner of the	nis sexually reprodu	uced or tuber propagated plant varie		tinct. unifr	orm, and stable as required in Section 42, and is				
entitled to protection under the provisions of Section	on 42 of the Plant 1	Variety Protection Act.			,				
Owner(s) is (are) informed that false representati	UI REFAIR CAN JEOD		ties. SIGNATURE OF OWNER						
	2		DIGNATURE OF OWNER						
NAME (Please print or type)	ng	*	NAME (Please print or type)						
Paul D. Koelling									
CAPACITY OR TITLE	DATE		CAPACITY OR TITLE	DATE					
Process Improvement Manager	01/	25/2008							
									

(See reverse for instructions and information collection burden statement)

GENERAL INSTRUCTIONS: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E, F; (3) for a tuber reproduced variety, verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; and (4) payment by credit card or check crawn on a U.S. bank for \$4,382 (\$518 filing fee and \$3,864 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice). NEW: With the application for a seed reproduced variety or by direct deposit soon after filing, the applicant must provide at least 3,000 viable untreated seeds of the variety per se, and for a hybrid variety at least 3,000 untreated seeds of each line necessary to reproduce the variety. Partial applications will be held in the PVPO for not more than 90 days; then returned to the applicant as un-filed. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a payment by credit card or check payable to "Treasurer of the United States" in the amount of \$768 for issuance of the certificates will be issued to owner, not licensee or agent.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

Plant Variety Protection Office

Telephone: (301) 504-5518

FAX: (301) 504-5291

General E-mail: PVPOmail@usda.gov

Homepage: http://www.ams.usda.gov/science/pvpo/PVPindex.htm

SPECIFIC INSTRUCTIONS:

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and provide evidence that the permanent name of the application variety (even if it is a parental, inbred line) has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: U.S. Department of Agriculture, Agricultural Marketing Service, Livestock and Seed Programs, Seed Regulatory and Testing Branch, 801 Summit Crossing Place, Suite C, Gastonia, North Carolina 28054-2193 Telephone: (704) 810-8870. http://www.ams.usda.gov/sg/seed.htm.

ITEM

19a, Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;

(3) evidence of uniformity and stability; and

- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties;
 - (1) identify these varieties and state all differences objectively;
 - (2) attach replicated statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)
U.S. Patent 4,940,835 issued to Shah et al. as per the Roundup Ready Gene in this variety; One or more of U.S. Patents numbered 5,710,369 and 5,534,425 issued to Fehr and Hammond, as per the genetics and modified oil composition resulting in reduced linolenic acid (18:3) content in this variety. According to the Peperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0535. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual crientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

Exhibit A. Origin and Breeding History of the Variety

Soybean Variety 93Y50

Variety 93Y50 evolved from a cross made in the summer of 2002 in lowa with the following parentage:

Parentage = IA3017/93M60*

*93M60 is a commercial variety with the Roundup Ready® (40-3-2) gene

Variety 93Y50 is an F3-derived line which was advanced to the F3 generation by modified single-seed descent. The F3 progeny row of 93Y50 was grown in a phenotypic plant row selection block in Hawaii during the winter/spring of 2004. Subsequently, 93Y50 has undergone four years of extensive testing and purification and has been observed by the breeder to be uniform and stable for all plant traits from generation to generation, with no evidence of variants. On the basis of yield, ultra low linolenic oil content, phytophthora resistance, and resistance to Roundup® branded herbicides; variety 93Y50 was assigned a commercial number.

The purification block was grown in the summer of 2005 in Iowa and 4 sub-lines were harvested. A two-hundredth (0.02) acre increase was grown in Chile in 2005/2006. One (1) acre was grown in the summer of 2006, and thirty-seven (37) acres were grown in the winter of 2006/2007 as parent seed stock (foundation seed equivalent). Approximately 1157 acres of seed stock and production seed were grown in the summer of 2007.

Exhibit B. Statement of Distinctness

Soybean Variety 93Y50

Variety 93Y50 is most similar to variety 93B36. Both varieties have purple flowers, light tawny pubescence, yellow seed with black hila, brown pod wall, resistance to *Phytophthora megasperma* as governed by Rps1k, and resistance to Roundup® branded herbicides. However the isozyme profile of 93Y50 is different than the isozyme profile of 93B36. See Table below for differences.

Variety	ACO2	ACO4
93B36	1 .	1
93Y50	2	3

Variety 93Y50 is also similar to variety 93M50. Both varieties have light tawny pubescence, yellow seed with black hila, brown pod wall, resistance to *Phytophthora megasperma* as governed by Rps1k, and resistance to Roundup® branded herbicides. However 93Y50 has purple flowers, 2% or less linolenic oil content and not resistance to the soybean cyst nematode; whereas 93M50 has white flowers, normal linolenic oil content and resistance to race 3 of the soybean cyst nematode. See table below for oil profile.

	·	·····
	İ	%
Ī		Linolenic
		Oil
Variety	Statistic	(R183)
93Y50	Mean1	1.2
93M50	Mean2	7.8
	#Locs	6
	#Reps	9
	#Years	1
	%Wins	100
	Diff	6.6
	Tvalue	19.2
	SE Diff	0.34
	Prob	0

REPRODUCE LOCALLY. Include form number and date on all reproductions.

Form Approved OMB NO 0681-0055

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to everage 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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U.S. DEPARTMENT OF AGRICULTURE

EXHIBIT

AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

OBJECTIVE DESCRIPTION OF VARIETY Sovbean (Glycine max (L.) Merr.)

NAME OF APPLICANT (S)	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME
Pioneer Hi-Bred International, Inc.	XB35F07	93Y50
ADDRESS (Street and No. or RD No., City, State, Zip Code, and Cours	FOR OFFICIAL USE ONLY	
7300 N.W. 62nd Avenue, P.O. Box 1004, Jo	hnston, IA, 50131-1004	# 200080 008
should be based on a minimum of 100 plants. Compara)) when number is either 99 or less or 9 or less respectitive data should be determined from varieties entered in	
any recognized color standard may be used to determine all questions for your variety; lack of response may delay		Please answer
·	A Triangular of the Annual Association (Association of the Annual Association of the Annual Asso	V-2-
A. MORPHOLOGY:		
Seed Shape:		
1 = Spherical (LW, L/T, and T/W ratios ≤1.2)	ı L 2 = Spherical-Flattened (L/W ratiòs> 1.2; L/T ratios ≤ 1.2)	W T
3 = Elongate (L/W ratios > 1.2; T/W ratios ≤ 1.2)	4 = Elongate-Flattened (L/T ratios ≥ 1.2; L/W ratios ≥ 1.2)
Seed Coat Color:		
* 1 1 = Yellow 2 = Green 3 = Br	own 4 = Black 5 = Other (Please spe	ecify)
Seed Coat Luster:		
1 1 = Dull 2 = Shiny		
Seed Size:		
* 15.8 grams/100 seeds (rounded to	the nearest decimal (00.0))	
Hilum Color:		
* 6 1 = Buff 2 = Yellow 3 = Bro 7 = Other (Please specify)	wn 4 = Gray 5 = Imperfect Black	6 = Black

A. MORPHOLOGY: (continued)

Cotyledon Color:

Seed Protein Peroxidase Activity:

Hypocotyl Color:

2 = Green with Bronze ('Evans' or 'Davis') Band below cotyledons ('Woodworth' or 'Tracy') 3 = Light Purple below Cotyledons ('Beeson' or 'Pickett 71')

4 = Dark Purple extending to unifoliolate leaves ('Hodgson', 'Coker', or 'Hampton 266A')

Leaf Shape:

Flower Color:

Pod Color:

Pubescence Color:

Plant Habit:

Maturity Group:

$$2 = 00$$

 $7 = IV$

$$3 = 0$$

Maturity Subgroup:

B. DISEASE REACTIONS: 0 = Not Tested

NOTE: Failure to supply information for at least 5 of the following disease reactions will result in significant delay in the examination process. Items denoted by and asterisk are the disease reactions most useful in the examination process.

Bacterial

- 0 | Bacterial Pustule (Xanthomonas campestris pv. glycines (Nakano) Dye)
- Bacterial Blight (Pseudomonas syringae pv. glycinea (Coerper) Young, Dye, & Wilkie)
- * 0 Wildfire Blight (Pseudomonas syringae pv. tabaci (Wolf & Foster) Young, Dye, & Wilkie)

Fungal

- * 1 Brown Spot (Septoria glycines Hemmi)
- 0 Frogeye Leaf Spot (Cercospora sojina Hara)
 - race 1
- race 3
- 0 race 5
- race 7

- race 2
- race 4
- 0 race 6

В.	D.	ISEASE RE	ACTIO	ONS: (con	tinu	ed)									
	0	Target Spot	{Corvn	espora cas:	siico	la (Berk & t	Cuit Y	Vei\							
	0	. 1					-	ca (Naum.) Sy	d E	(Gätim)					
	0							ou (Huumi, Oy	ч . с,	Codding					
	0	7					•	hamberlain) W	/ Ga	ms)					
*	<u> </u>	≒						acc. var. cauli			Caldwo	eil)			
*	_	l .						& Ell.) (Sacc. v							
	0							Tomoyasu) Ga			10.17	* C/1//1./			
	1	7					100								
	0	٦ .					-	a.k.a. <i>Phakos</i> į	oora	pachvrhizi	a Svd	lw.))			
	0	7	Please s		·	•	,			<u> </u>	, -	,,			
Sne		the gene(s) c	odina fa	or reaction t	Λ Di-	vtophthom	Post F				•				
Opt	0	1		ps1-c		Rps1-k	1,001	1] D==E	· ·	70-2			
	U	(Williams)		rksoy)	2	(Kingwa)	U	<i>Rps3-b</i> (Pl 172.901)	·U	<i>Rps</i> 5 (Pl 91.16) <i>Rps?</i> (Nezur	nisaya,	OX939, OX	(940
	0	Rps1-a (Mukden)		ps1-d Pl 103.091)	0	<i>Rps2</i> (CNS)	0	Rps3-c (Pl 340.046)	0	Rps6 (Altona)			-		
-	0	Rps1-b (Sanga)		ps1-e 1 172.907)	0	Rps3-a (Pl 171.442	2) 0	Rps4 (Pl 86.050)	0	Rps7 (Harosoy)				
*Ph	ytop	hthora Root R	ot (<i>Phy</i>	/tophthora s	ojae	(Kaufmann	ı & Ge	rdemann))							
	$\overline{}$	race 1	0 rad		0	race 17	0	race 25	0	race 32	Γ	0 race 3	19		
	0	race 2	0 rac	ce 10	0	race 18	0	race 26	0	race 33	. F	0 race 4			
•	0	race 3	0 rac	ce 11	0	race 19	0	гасе 27	0	гасе 34	Ī	0 гасе 4	1 1		•
	0	race 4	0 rac	e 12	0	race 20	0	race 28	0	race 35	· Ī	0 race 4	12		
į	2	race 5	0 rac	ce 13	0	race 21	0	race 29	0	race 36		0 race 4	13		
	0	race 6	0 rac	e 14	0	race 22	0	race 30	0	race 37	Ī	0 race 4	14		
	2	race 7	0 rac	e 15	0	race 23	0	race 31	0	race 38	<u></u>	0 race 4	15	1	:
į	0	race 8	0 rac	e 16	0	race 24	0	Important: An	y oth	ner races t	ested	 (Please :	specify)		
. [1	Bud Blight (To	bacco I	Ringspot Vi	rus)								·		
	1	Yellow Mosaid	: (Bean	Yellow Mos	aic	Virus)									
*	1	Cowpea Mosa	ic (Cow	pea Chioro	tic \	/irus)									
[1	Pod Mottle (Be	ean Poc	d Mottle Viru	Js)										
* [1 8	Seed Mottle (S	Soybear	n Mosaic Vi	rus)										
Nen	nato	de													
			1												
		Cyst Nemato	7			-)	•							
L		ace 1 0	race 4												
L	=	ace 2 0	∫race 5							÷	÷				
Ĺ	T L	ace 3 0	race 6	§ [0]!	mpc	ortant: Any o	ther ra	aces tested (P	lease	e specify)				1-1-1-1-1-1-1	

В.	Di	SEASE REACTIONS: (continued)
	0	Lance Nematode (Hoplolaimus columbus Sher)
	0	Southern Root Knot Nematode (<i>Meliodogyne incognita</i> (Kofoid & White) Chitwood)
	0	Northern Root Knot Nematode (<i>Meliodogyne hapla</i> Chitwood)
	0	Peanut Root Knot Nematode (<i>Meliodogyne arenaria</i> (Neal) Chitwood)
	0	Reniform Nematode (Rotylenchus reniformus Linwood & Olivera)
	0	Javanese Nematode (<i>Meliodogyne javanica</i> (Treub) Chitwood)
٠.	0	Important: Other Nematodes tested (Please specify)
C.	PH	IYSIOLOGICAL RESPONSES: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant
	1	Iron Chlorosis on Calcareous Soil
	0	Phosphorus 0 Important: Other (Please specify)
	0	Boron
	0	Aluminum
	0	Salt
	0	Drought
	<u> </u>	
D.	INS	SECT REACTIONS: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant
	0	Mexican Bean Beetle (Epilachna varivestis Mulsant)
		Soybean Aphid (<i>Aphis glycines</i> Matsamura)
		Potato Leaf Hopper (<i>Empoasca fabae</i> (Harris))
		Important: Other (Please specify)
	U	Important. Other (Flease specify)
E.	ΗE	RBICIDE REACTIONS: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant
	0	Metribuzin
	0	Bentazone
	1	Sulfonylurea
*		Glyphosate
		Glufosinate
		Pendimethalin
	=	Important: Other (Please specify)

F. TRANSGENIC COMPOSITION:

Has the development of the subject variety	included the insertion of genet	tic material from an organism other than a	a soybean,
or, the removal of genetic material from the	application variety?		•

If yes, please complete the following information requests*. Use additional pages if necessary.

Ves
No

- 1. Please state the vector's name:
- 2. Please state the vector components:
- 3. Please describe the genetic material successfully transferred into the subject variety:
- · 4. Please describe the insertion protocol:
- * A literature citation(s) explaining the four information requests above may be an acceptable alternative to completion of the "Transgenic Composition" portion of this form.

G. BIOCHEMICAL MARKERS:

Please describe any additional genetic and/or biochemical information which you believe will be helpful in further describing the subject variety here (e.g., Single Nucleotide Polymorphisms (SNPs), Simple Sequence Repeats (SSRs), Restriction Fragment Length Polymorphisms (RFLPs), Isozyme characterization, etc.). Use additional pages if necessary.

H. STATISTICAL DATA FOR APPLICATION AND CITED MOST SIMILAR VARIETIES:

Please provide paired comparison data and appropriate statistical test (e.g. LSD. Std. error, ANOVA, Mann-Whitney *U*-test or Kruskal-Wallis Test, etc.) value (95 or > probability level).

Variety	No. of days Maturity	Plant height (cm)	% Linoleic acid	% Oleic acid	% Linolenic acid	% Other fatty acids (specify)	% Total oil	% Protein (Plant dried down to%)
Application Variety Year/Location 1					· · · · · · · · · · · · · · · · · · ·			
Year/Location 2								
Cited Most Similar Variety Year/Location 1								
Year/Location 2								

I. COMMENTS:

Number 1:

The Transgenic Composition section is fully addressed in the following publication. Specific details of this vector components and insert elements are summarized in Figure 1 and Table 1 on page 1453. Padgett, S.R. et al. Development, Identification, and Characterization of a Glyphosate-Tolerant Soybean Line. 1995. Crop Science. 35:1451-1461.

Number 2:

93Y50 is rated as susceptible to iron chlorosis on calcareous soils. On a scale of one to nine with one being fully susceptible, and nine being complete resistance; 93Y50 is rated three.

Number 3:

93Y50 rated as ultra low lenolenic line with 2% or less linolenic oil content. Normal commondity soybeans have a profile in excess of 6% lenolenic oil

Number 4:

93Y50 is rated as having antibiosis resistance to soybean aphids*. On a scale of one to nine with one being susceptible, and nine being resistance; 93Y50 is rated seven.

*Antibiosis is measured using a growth chamber screening technique that compares the rate of aphid reproduction on different varieties. Antibiosis resistance reduces the rate of growth, survival and reproduction of soybean aphids that feed on soybean plants.

Exhibit D. Additional Description of the Variety

Soybean Variety 93Y50

In Exhibit C we have identified variety 93Y50 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle and seed mottle.

This does not mean that variety 93Y50 is any worse for these problems than other varieties of similar maturity. Rather, we do not consider 93Y50 to be immune to these problems. Therefore, we have chosen to be conservative and have identified the line as "susceptible".

Variety 93Y50 is a mid Group 3 variety. If Group 3 varieties are divided into tenths, the relative maturity of 93Y50 is 3.5.

REPRODUCE LOCALLY. Include form number and edition date on a	Il reproductions.	ORM APPROVED - OMB No. 0581-005				
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE EXHIBIT E	Application is required in order to detectificate is to be issued (7 U.S.C. 24 confidential until the certificate is issued.	(21). The information is held				
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION 3. VARIETY NAME					
Pioneer Hi-Bred International, Inc.	OR EXPERIMENTAL NUMBER XB35F07	93Y50				
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (include area code)	6. FAX (Include erea code)				
7300 N.W. 62nd Avenue	(515) 253-2197	(515) 253-2288				
P.O. Box 1004	7. PVPO NUMBER					
Johnston, IA 50131-1004	#200800	096				
8. Does the applicant own all rights to the variety? Mark an "X" in th 9. Is the applicant (individual or company) a U.S. national or a U.S. t						
10. Is the applicant the original owner? YES	NO If no, please answer one	of the following:				
b. If the original rights to variety were owned by a company(ies) YES 11. Additional explanation on ownership (Trace ownership from original)	✓ NO If no, give name of country	у				
PLEASE NOTE:						
Plant variety protection can only be afforded to the owners (not licens						
 If the rights to the variety are owned by the original breeder, that p national of a country which affords similar protection to nationals of 	erson must be a U.S. national, national of If the U.S. for the same genus and specie	of a UPOV member country, or es.				
2. If the rights to the variety are owned by the company which employnationals of a UPOV member country, or owned by nationals of a genus and species.	yed the original breeder(s), the company country which affords similar protection to	must be U.S. based, owned by o nationals of the U.S. for the same				
3. If the applicant is an owner who is not the original owner, both the	original owner and the applicant must m	eet one of the above criteria.				
The original breeder/owner may be the individual or company who di Act for definitions.	rected the final breeding. See Section 4	1(a)(2) of the Plant Variety Protection				
According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, control number. The valid OMB control number for this information collection is 0581-0055.	and a person is not required to respond to a collection. The time required to complete this information collect	n of information unless it displays a valid OMB tion is estimated to average 0.1 hour per response,				

including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parantal status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provide and employer.

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Form Approved OMB NO 0581-0055

According to the Paperwork Reduction Act of 1995, an egency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a velid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to everage 6 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE **SCIENCE AND TECHNOLOGY** PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBITE DECLARATION REGARDING DEPOSIT

NAME OF OWNER (S) Pioneer Hi-Bred International, Inc.	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) 7300 N.W. 62nd Avenue	TEMPORARY OR EXPERIMENTAL DESIGNATION XB35F07			
	P.O. Box 1004 Johnston, IA 50131-1004	VARIE 93Y50			
NAME OF DWNER REPRESENTATIVE (S)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) 7300 N.W. 62nd Avenue	FOR OFFICIAL USE ONLY			
Paul D. Koelling Cassie J. Prochaska	P.O. Box 1004 Johnston, IA 50131-1004	PVPO NUMBER # 2 0 0 8 0 0 0 9 6			

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

auld Rolling

January 25, 2008